

CLAIMS

What is claimed is:

1. A method of analyzing a minute quantity of content by analyzing the content extracted with a solvent from a material including the content, the method comprising:

a step of mounting on a sample table a sample piece of the material to be analyzed;

a step of dropping onto the sample table the solvent for extracting the content from the sample piece, and injecting the solvent into a gap between the sample table and the sample piece;

a step of maintaining at room temperature the solvent injected into the gap between the sample table and the sample piece, and, with the solvent maintained in the gap between the sample table and the sample piece, extracting the content from the sample piece; and

a step of analyzing the content extracted from the sample piece.

2. A method of analyzing a minute quantity of content by analyzing the content extracted with a solvent from a polymer material including the content, the method comprising:

a step of mounting, in contact with the top face of a sample table, a sample piece of the material to be analyzed;

a step of dropping onto the sample table the solvent for extracting the content from the sample piece, and injecting the solvent into a gap between the top face of the sample table and the sample piece mounted in contact with the top face of the sample table;

a step of maintaining at room temperature the solvent injected into the gap between the top face of the sample table and the sample piece, and, with the solvent maintained in the gap between the top face of the sample table and the sample piece, extracting the content from the sample piece; and

a step of analyzing the content extracted from the sample piece.

3. A method of analyzing a minute quantity of content as recited in claim 2, wherein the step of analyzing the content extracted from the sample piece includes a chromatographic analyzing method of analyzing solution including the content extracted from the sample piece.

4. A method of analyzing a minute quantity of content as recited in claim 2, wherein the step of analyzing the content extracted from the sample piece includes a method of, after removing by vaporization of the solvent in the solution including the content extracted from the sample piece so as to deposit the content onto the surface of a substrate used as the sample table, analyzing the content deposited on the surface of the substrate.

5. A method of analyzing a minute quantity of content as recited in claim 4, wherein the method of analyzing the content deposited on the surface of the substrate is the time-of-flight secondary ion mass spectrometry method.

6. A method of analyzing a minute quantity of content as recited in claim 2, wherein, in the step of extracting the content from the sample piece, a method of extracting, by adding vibration in a state in which the solvent is maintained at room temperature in the gap between the top face of the sample table and the sample piece, using the solvent maintained in the gap between the top face of the sample table and the sample piece, the content from the sample piece is used.

7. A method of analyzing a minute quantity of content as recited in claim 2, wherein, in the step of extracting the content from the sample piece, a method of extracting, by maintaining the solvent in the gap between the top face of the sample table and the sample piece in the saturated vapor atmosphere, at room temperature, of the solvent used for the extraction, using the solvent maintained in the gap between the top face

of the sample table and the sample piece, the content from the sample piece is used.

8. A method of analyzing a minute quantity of content as recited in claim 5, wherein the solvent, maintained in the gap between the top face of the sample table and the sample piece, for extracting the content from the sample piece additionally includes a silver composition soluble in the solvent.